

Title (en)

Carrier sense collision avoidance in a local area network

Title (de)

Kollisionsvermeidung durch Trägererfassung in einem lokalen Netz

Title (fr)

Evitement de collisions par test de porteuse dans un réseau local

Publication

EP 0782298 A1 19970702 (EN)

Application

EP 96308866 A 19961206

Priority

CA 2166343 A 19951229

Abstract (en)

A Carrier Sense Multiple Access with Automatic Abort collision avoidance (CSMA/AA) controller for application in a wireless local area network (LAN). The CSMA/AA controller reduces the number of invalid states arising from collision conditions on the communication channel. The controller features hardware logic control for time critical functions. The hardware logic circuit detects events and fault conditions under the CSMA reservation protocol which may otherwise be missed by the Medium Access Control software layer and aborts the transmit procedure. The off-loading of time critical functions also improves the performance of the system and reduces the variability arising from overhead execution times associated with the system CPU. <IMAGE>

IPC 1-7

H04L 12/413; H04L 12/28

IPC 8 full level

H04L 12/28 (2006.01); **H04L 12/413** (2006.01)

CPC (source: EP KR US)

H04B 1/44 (2013.01 - KR); **H04W 74/0808** (2013.01 - EP US); **H04W 74/0816** (2013.01 - KR); **H04W 84/12** (2013.01 - KR)

Citation (search report)

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Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0782298 A1 19970702; CA 2166343 A1 19970630; CA 2166343 C 19990810; JP 3760009 B2 20060329; JP H09200212 A 19970731; KR 100312792 B1 20011228; KR 970056527 A 19970731; US 6473414 B1 20021029

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EP 96308866 A 19961206; CA 2166343 A 19951229; JP 32202696 A 19961202; KR 19960045643 A 19961014; US 77224096 A 19961223